

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/14213A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C01B13/32 C01F7/44 B01J8/38 F23C10/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C01B C01F B01J F23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DD 248 109 A (DESSAU ZEMENTANLAGENBAU VEB) 29 July 1987 (1987-07-29)	1-19,22, 23
Y	page 2: "Ausführungsbeispiel" figures 1,2 ---	20,21, 24-26
Y	US 6 015 539 A (SCHMIDT HANS WERNER ET AL) 18 January 2000 (2000-01-18) cited in the application the whole document ---	20,21, 24-26
A	EP 0 575 245 A (PROCEDAIR SA) 22 December 1993 (1993-12-22) claim 1 column 1, line 1-10 column 1, line 43 -column 2, line 18 figure 1 ---	1-26 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

31 March 2004

Date of mailing of the international search report

08/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Rhodes, K

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/14213

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 44719 A (AHONEN HEIKKI ;LIVITE OY (FI)) 21 June 2001 (2001-06-21) page 4, line 24 -page 5, line 21 page 6, line 25-28 figure 1 -----	1-26
A	US 4 404 755 A (GAMBLE ROBERT L ET AL) 20 September 1983 (1983-09-20) column 1, line 43-47 column 4, line 63 -column 5, line 7 figure 3 -----	1-26

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14213

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DD 248109	A	29-07-1987	DD	248109 A1		29-07-1987
US 6015539	A	18-01-2000	DE	19542309 A1	15-05-1997	
			AT	209607 T	15-12-2001	
			AU	728011 B2	04-01-2001	
			AU	7497096 A	05-06-1997	
			BR	9611386 A	24-10-2000	
			CA	2235706 A1	22-05-1997	
			CN	1204302 A ,B	06-01-1999	
			DE	59608329 D1	10-01-2002	
			DK	861208 T3	25-03-2002	
			EA	980451 A1	29-10-1998	
			WO	9718165 A1	22-05-1997	
			EP	0861208 A1	02-09-1998	
			ES	2169270 T3	01-07-2002	
			ID	17589 A	15-01-1998	
			IN	186958 A1	22-12-2001	
			JP	2000512255 T	19-09-2000	
			SK	64298 A3	12-07-1999	
EP 0575245	A	22-12-1993	FR	2692497 A1	24-12-1993	
			AU	4007193 A	23-12-1993	
			CA	2097975 A1	18-12-1993	
			EP	0575245 A1	22-12-1993	
			ES	2093943 T3	01-01-1997	
			ZA	9304041 A	06-01-1994	
WO 0144719	A	21-06-2001	AU	2377701 A	25-06-2001	
			WO	0144719 A1	21-06-2001	
			SE	0201815 A	07-08-2002	
US 4404755	A	20-09-1983	AT	20769 T	15-08-1986	
			CA	1181994 A1	05-02-1985	
			EP	0073650 A1	09-03-1983	
			IE	53074 B1	25-05-1988	
			JP	1413661 C	27-11-1987	
			JP	58040491 A	09-03-1983	
			JP	62023237 B	21-05-1987	